

Chlorinated Solvents							
Target Contaminants	Maximum Concentration (mg/L)	Reactive Media	Construction	Installation Cost	Installation Date	Location	Full Scale (F) Pilot (P)
TCE	0.50	Fe ⁰	Funnel and Gate	\$600,000	March 1998	Aircraft Maintenance Facility, OR	F
TCE	6.0-8.0	Fe ⁰	Hydraulic Fracturing	\$1,120,000	March 1998	Caldwell Trucking, NJ	F
TCA 1,1-DCE TCE cDCE	0.70 0.70	Fe ⁰	Funnel and Multiple Gate	\$1,000,000	October 1996	Federal Highway Administration (FHA) Facility, Lakewood, CO	F
1,1,1-TCA PCE TCE DNAPL	1.2 0.019 0.11	Fe ⁰	Continuous Trench	\$725,000	September 1998	Former Manufacturing Site, Fairfield, NJ	F
TCE 1,2-cDCE	390	Fe ⁰	Slurry Wall Funnel, <i>In Situ</i> Reaction Vessel	\$375,000	December 1995	Industrial Site, Belfast, Northern Ireland	F

PCE, 1,2-DCE	20 0.5	Fe ⁰ iron sponge	Continuous Wall	\$93,000	June 1998	Former Drycleaning Site, Rheine, Westphalia, Germany	F
TCE 1,1,1-TCA	0.4 0.1	Fe ⁰	Funnel and Gate	\$400,000	January 1996	Industrial Site, Coffeyville, KS	F
TCE cDCE VC	1.3 1.8 0.026-0.053	Fe ⁰	Continuous Trench	\$797,000	December 1997	Industrial Site, NY	F
TCE cDCE VC	25 3.5 0.90	Fe ⁰	Continuous Trench	\$350,000	November 1997	Industrial Site, SC	F
TCE cDCE VC Freon113®	0.050-0.20 0.45-1.0 0.10-0.50 0.020-0.060	Fe ⁰	Funnel and Gate	\$1,000,000	February 1995	Intersil Semiconductor Site, Sunnyvale, CA	F
1,2-DCE VC	1.4 0.30	Fe ⁰	Continuous Trench	\$1,300,000	April 1998	Kansas City Plant, Kansas City, MO	F
TCE	1.4	Fe ⁰	Funnel and Gate	\$530,000	December 1995	Lowry Air Force Base, CO	F
Cr ⁺⁶ TCE	3.4 4.3	Fe ⁰	Continuous Trench	\$500,000	June 1996	U.S. Coast Guard Support Center, Elizabeth City, NC	F

PCE TCE cDCE, tDCE VC	1.1 1.5 4.2 0.011 1.7	Concrete, sand, and iron	Excavate and Fill	\$257,000	October 1998	Watervliet Arsenal, Watervliet, NY	P
PCE TCE DCE	5.6 0.55 0.53	Fe ⁰	Funnel and Gate	\$800,000	January 1998	Area 5, Dover Air Force Base (AFB), DE	P
TCE PCE	250 43	Fe ⁰	Continuous Trench	\$30,000 (not including Fe ⁰ & labor)	1991	Borden Aquifer, Ontario, Canada	P
TCE DCE VC	90 170 7.0	Fe ⁰	Continuous Walls with overlapping Panels	\$809,000	October- November 1997	Cape Canaveral Air Station, FL	P
PCE 1,2-DCE	20 0.50	Fe ⁰ , iron sponge	Continuous Wall	\$93,000	June 1998	Former Drycleaning Site, Rheine, Westphalia, Germany	P
TCE cDCE VC	0.30 0.50 0.080	Fe ⁰	Funnel and Gate	\$250,000	May 1995	Industrial Site, NY	P
Cr ⁺⁶ PCE	22 2.0	SMZ	Hanging Barrier in Perforated Metal Frame	\$100,000	October 1997	LEAP Permeable Barrier Demonstration Facility, Portland, OR	P

PCE TCE	0.30 0.015	Fe ⁰	Hydraulic Fracturing	\$160,000	June 1998	Massachusetts Military Reservation CS-10 Plume, Falmouth, MA	P
PCE TCE	0.30 0.015	Fe ⁰	Hydraulic Fracturing	\$160,000	June 1998	Moffett Federal Airfield, Mountain View, CA	P
TCE, 1,2-DCE PCE	3.0 0.28 0.026	Fe ⁰	Funnel and Gate	\$365,000	April 1996	Savannah River Site TNX Area, Aiken, SC	P
TCE cDCE CT NO3	0.25 0.050 0.045 0.070	Fe ⁰	GeoSiphon Cell	\$120,000	July 1997	Savannah River Site TNX Area, Aiken, SC	P
TCE PCE cDCE	0.59 13 1.6	Fe	Reaction Vessel	\$48,000	November 1994	SGL Printed Circuits, Wayne, NJ	P
TCE VC	0.37 1.9	Fe ⁰	Funnel and Gate	To be determined	1994	Somersworth Sanitary Landfill, NH	P
cDCE VC TCE BTEX	VOCs >100 toluene 10	Fe ⁰ , O	Funnel and Sequenced Treatment Gate	\$400,000	December 1996	U.S. Naval Air Station, Alameda, CA	P

TCE	0.15	Fe ⁰	Horizontal Well	\$4,000,000	March 1996	X-625 Groundwater Treatment Facility, Portsmouth Gaseous Diffusion Plant, Piketon, OH	P
Metals and Inorganics							
Target Contaminants	Maximum Concentration (mg/L)	Reactive Media	Construction	Installation Cost	Installation Date	Location	Full Scale (F) Pilot (P)
U	21	Fe ⁰ , AFO, PO ₄	Funnel and Gate	\$140,000	August 1997	Fry Canyon Site, UT	F
Ni Fe Sulfate	10 1000 3800	Organic Carbon	Cut and Fill	\$30,000	August 1995	Nickel Rim Mine Site, Sudbury, Ontario, Canada	F
Pb Cd As Zn Cu	0.33 0.077 0.31 1.1 0.14	Limestone	Continuous Trench	To be determined	August 1998	Tonolli Superfund Site, Nesquehoning, PA	F
Cr ⁺⁶ TCE	3.4 4.3	Fe ⁰	Continuous Trench	\$500,000	June 1996	U.S. Coast Guard Support Center, Elizabeth City, NC	F
Cr ⁺⁶	2.0	Sodium dithionite	Injection	\$480,000	September 1997	100D Area, Hanford Site, WA	P

Cr ⁺⁶ PCE	22 2.0	SMZ	Hanging Barrier in Perforated Metal Frame	\$100,000	October 1997	LEAP Permeable Barrier Demonstration Facility, Portland, OR	P
TCE cDCE CT NO ₃	0.25 0.050 0.045 70	Fe ⁰	GeoSiphon Cell	\$120,000	July 1997	Savannah River Site TNX Area, Aiken, SC	P
U Tc HNO ₃		Fe ⁰	Funnel and Gate Continuous Trench	\$1,000,000	November 1997 December, 1997	Y-12 Site, National Laboratory, TN	F
PO ₄ NO ₃		Fe/Ca oxides, high-Ca limestone, organic carbon	Funnel and Gate	\$5,000	August 1993	Public School, Langton, Ontario, Canada	P
U	21	Fe ⁰ , AFO, PO ₄	Funnel and Gate	\$140,000	August 1997	Fry Canyon Site, UT	F
U Tc HNO ₃		Fe ⁰ Fe0	Funnel and Gate Continuous Trench	\$1,000,000	November 1997 December, 1997	Y-12 Site, Oak Ridge National Laboratory, TN	F

Other							
Target Contaminants	Maximum Concentration (mg/L)	Reactive Media	Construction	Installation Cost	Installation Date	Location	Full Scale (F) Pilot (P)
BTEX	12	O ₂	Trench and Gate	\$67,200	September 1995	East Garrington, (Near Olds), Alberta, Canada	P
cDCE VC TCE BTEX	VOCs >100 toluene 10	Fe ⁰	Funnel and Sequenced Treatment Gate	\$400,000	December 1996	U.S. Naval Air Station, Alameda, CA	P
BHC beta-BHC DDD DDT xylene ethylbenzene lindane methyl parathion	60 7.6 99 9.3 94,000 6,100 55 47	Activated carbon	Funnel and Gate	\$520,000	August 1998	Marzone Inc./Chevron Chemical Company, Tifton, GA	F